CLERK W.S. DISTRICT COURT 1 Michael J. Wise, Bar No. 143501 JUL 29 2011 MWise@perkinscoie.com Lauren Sliger, Bar No. 213880 LSliger@perkinscoie.com 2 CENTRAL DISTRICT OF CALIFORNIA 3 PERKINS COIE LLP 1888 Century Park East, Suite 1700 Los Angeles, CA 90067-1721 Telephone: 310.788.9900 4 5. Facsimile: 310.788.3399 6 Attorneys for Plaintiff RUYAŇ INVESTMENT (HOLDINGS) LIMITED 7 UNITED STATES DISTRICT COURT 8 9 CENTRAL DISTRICT OF CALIFORNIA 10 LaA GoV 11-6268PSG(FFN **RUYAN INVESTMENT** 11 (HOLDINGS) LIMITED, a British Virgin Islands company, RUYAN'S COMPLAINT FOR 12 PATENT INFRINGEMENT Plaintiff, 13 DEMAND FOR JURY TRIAL 14 v. VAPOR CORP., a Nevada 15 Corporation; LOAD AND FOLD dba MAGIC PUFFER, a New Jersey 16 Corporation; GIL CYPHERT, an individual dba NU 1S; JEFFREY 17 ORTH, an individual dba JANTY USA; JANTY USA, LLC, a Texas 18 Limited Liability Company; CN CREATIVE LIMITED, a United 19 Kingdom company; INTELLICIG USA LLC, a Georgia Limited Liability 20 Company; and DOES 1-10, inclusive. 21 Defendants. 22 For its Complaint against Defendants Vapor Corp.; Load and Fold dba Magic 23 Puffer; Gil Cyphert dba Nu 1s; Jeffrey Orth dba Janty USA; Janty USA, LLC; CN 24 Creative Limited; Intellicig USA LLC; and DOES 1-10, inclusive (collectively, 25 "Defendants"), Plaintiff Ruyan Investment (Holdings) Limited ("Ruyan") alleges as 26 follows: 27 28

76320-0001/LEGAL21014560.1

Case	2:11-cv-06268-GAF-FFM Document 1 File	led 07/29/11	Page 2 of 26	Page ID #:48
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Michael J. Wise, Bar No. 143501 MWise@perkinscoie.com Lauren Sliger, Bar No. 213880 LSliger@perkinscoie.com PERKINS COIE LLP 1888 Century Park East, Suite 1700 Los Angeles, CA 90067-1721 Telephone: 310.788.9900 Facsimile: 310.788.3399 Attorneys for Plaintiff RUYAN INVESTMENT (HOLDINGS) UNITED STATE CENTRAL DISTR RUYAN INVESTMENT (HOLDINGS) LIMITED, a British Virgin Islands company, Plaintiff, v. VAPOR CORP., a Nevada Corporation; LOAD AND FOLD dba MAGIC PUFFER, a New Jersey Corporation; GIL CYPHERT, an individual dba NU 1S; JEFFREY ORTH, an individual dba JANTY USA; JANTY USA, LLC, a Texas Limited Liability Company; CN CREATIVE LIMITED, a United Kingdom company; INTELLICIG	ES DISTRICA CASE NO. RUYAN PATENT DEMAN	ΓCOURT	INT FOR MENT
20	USA LLC, a Georgia Limited Liability Company; and DOES 1-10, inclusive,			
21	Defendants.			
22	For its Complaint in t D. C. 1	lanta Varre d	7am - I a - 1	d Cald dha M'
23	For its Complaint against Defend	•		· ·
24	Puffer; Gil Cyphert dba Nu 1s; Jeffrey (
25	Creative Limited; Intellicig USA LLC;	and DOES 1	-10, inclusive	(collectively,
26	"Defendants"), Plaintiff Ruyan Investment	ent (Holding	gs) Limited ("l	Ruyan") alleges as
27	follows:			
28				
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JURISDICTION AND VENUE

- 1. This is a civil action for patent infringement arising under the patent laws of the United States, 35 U.S.C. §§ 101, et seq., and in particular § 271.
- 2. This Court has subject matter jurisdiction over this patent infringement action under 28 U.S.C. §§ 1331 and 1338(a).
- 3. This Court has personal jurisdiction over Defendants because they solicit and conduct business in California, including the provision of goods over the Internet, derive revenue from goods sold in California and within this judicial district, and have committed acts of infringement in this judicial district.
- 4. Venue lies in this judicial district pursuant to 28 U.S.C. §§ 1391(b) and (c), and 1400(b).

PARTIES

- 5. Plaintiff Ruyan is a company organized and existing under the laws of the British Virgin Islands, with its principle place of business at 15F, Hong Kong and Macau Building, 156-157 Connaught Rd., Central, Hong Kong, S.A.R. Ruyan is a leading innovator in the field of electronic smokeless nicotine products.
- 6. Ruyan is informed and believes that: Defendant Vapor Corp. ("Vapor Corp.") is a corporation organized and existing under the laws of the State of Nevada, having its principal place of business at 3001 Griffin Road, Dania Beach, Florida, 33312. Vapor Corp. is doing business in this judicial district related to the claims asserted in this Complaint.
- 7. Ruyan is informed and believes that: Defendant Load and Fold dba Magic Puffer ("Magic Puffer") is a corporation organized and existing under the laws of the State of New Jersey, having its principal place of business at 110 Meadowlands Pkwy, Suite 100, Secaucus, New Jersey 07094-2313. Magic Puffer is doing business in this judicial district related to the claims asserted in this Complaint.

- 8. Ruyan is informed and believes that: Defendant Gil Cyphert, an individual doing business as Nu 1s ("Nu 1s"), has his principal place of business in Phoenix, Arizona 85015. Nu 1s is a registered trade name with the Arizona Secretary of State. Nu 1s is doing business in this judicial district related to the claims asserted in this Complaint.
- 9. Ruyan is informed and believes that: Jeffrey Orth, an individual doing business as Janty USA ("Janty USA"), has a business address at 230 Scott Street, Unit 2C, Buffalo, New York 14204. Janty USA is doing business in this judicial district related to the claims asserted in this Complaint.
- 10. Ruyan is informed and believes that: Defendant Janty USA, LLC ("Janty USA, LLC") is a Texas limited liability company, having its principal place of business in Fort Worth, Texas 76137. Janty USA, LLC is doing business in this judicial district related to the claims asserted in this Complaint.
- 11. Ruyan is informed and believes that: Defendant CN Creative Limited ("CN Creative") is a company organized and existing under the laws of the United Kingdom, having its principal place of business in Accrington, Lancashire, United Kingdom. CN Creative is doing business in this judicial district related to the claims asserted in this Complaint.
- 12. Ruyan is informed and believes that: Defendant Intellicig USA LLC ("Intellicig USA") is a company organized and existing under the laws of the State of Georgia, having its principal place of business at 1590 Roberts Road NW, Kennesaw, Georgia 30144. Intellicig USA is doing business in this judicial district related to the claims asserted in this Complaint.
- 13. The true names and capacities, whether individual, corporate, associate, otherwise of defendants sued herein as DOES 1 through 10, inclusive, are unknown to Ruyan at the present time, and Ruyan therefore sues said Defendants by such fictitious names. Ruyan, after obtaining leave of court, if necessary, will

amend this Complaint to show such true names and capacities when the same have been ascertained.

FIRST CAUSE OF ACTION

(Infringement of U.S. Patent No. 7,832,410)

- 14. Ruyan incorporates by reference the allegations contained in paragraphs 1-13 above.
- 15. Ruyan is the owner of the entire right, title, and interest in and to United States Patent No. 7,832,410 ("the '410 Patent"). The '410 Patent was duly and legally issued by the United States Patent Office on November 16, 2010 and is valid and subsisting and in full force and effect. A copy of the '410 Patent is attached to the Complaint as Exhibit A.
- 16. Ruyan is informed and believes that: Defendants have each infringed, contributed to the infringement of, and/or actively induced infringement of the '410 Patent by, themselves and/or through their agents, unlawfully and wrongfully making, using, importing, offering to sell, and/or selling electronic cigarette products embodying one or more of the inventions claimed in the '410 Patent, within and/or from the United States without permission or license from Ruyan, and will continue to do so unless enjoined by this Court.
- 17. Ruyan is informed and believes that: Defendant Vapor Corp. has infringed, contributed to the infringement of, and/or actively induced infringement of the '410 Patent by, itself and/or through its agents, unlawfully and wrongfully making, using, importing, offering to sell, and/or selling electronic cigarette products, including, but not limited to, the Fifty-One Trio electronic cigarette, that embody one or more of the inventions claimed in the '410 Patent.
- 18. Ruyan is informed and believes that: Defendant Magic Puffer has infringed, contributed to the infringement of, and/or actively induced infringement of the '410 Patent by, itself and/or through its agents, unlawfully and wrongfully making, using, importing, offering to sell, and/or selling electronic cigarette

products, including, but not limited to, the Magic Puffer E-Cigarette electronic cigarette, that embody one or more of the inventions claimed in the '410 Patent.

- 19. Ruyan is informed and believes that: Defendant Nu 1s has infringed, contributed to the infringement of, and/or actively induced infringement of the '410 Patent by, itself and/or through its agents, unlawfully and wrongfully making, using, importing, offering to sell, and/or selling electronic cigarette products, including, but not limited to, the Nu1s Disposable E-CIG electronic cigarette, that embody one or more of the inventions claimed in the '410 Patent.
- 20. Ruyan is informed and believes that: Defendant Janty USA has infringed, contributed to the infringement of, and/or actively induced infringement of the '410 Patent by, itself and/or through its agents, unlawfully and wrongfully making, using, importing, offering to sell, and/or selling electronic cigarette products, including, but not limited to, the Janty DURA electronic cigarette, that embody one or more of the inventions claimed in the '410 Patent.
- 21. Ruyan is informed and believes that: Defendant Janty USA, LLC has infringed, contributed to the infringement of, and/or actively induced infringement of the '410 Patent by, itself and/or through its agents, unlawfully and wrongfully making, using, importing, offering to sell, and/or selling electronic cigarette products, including, but not limited to, the Janty DURA electronic cigarette, that embody one or more of the inventions claimed in the '410 Patent.
- 22. Ruyan is informed and believes that: Defendant CN Creative has infringed, contributed to the infringement of, and/or actively induced infringement of the '410 Patent by, itself and/or through its agents, unlawfully and wrongfully making, using, importing, offering to sell, and/or selling electronic cigarette products, including, but not limited to, the EVOlution electronic cigarette, that embody one or more of the inventions claimed in the '410 Patent.
- 23. Ruyan is informed and believes that: Defendant Intellicig USA has infringed, contributed to the infringement of, and/or actively induced infringement

- of the '410 Patent by, itself and/or through its agents, unlawfully and wrongfully making, using, importing, offering to sell, and/or selling electronic cigarette products, including, but not limited to, the EVOlution electronic cigarette, that embody one or more of the inventions claimed in the '410 Patent.
- 24. Ruyan is informed and believes that: Defendants DOES 1-10 have infringed, contributed to the infringement of, and/or actively induced infringement of the '410 Patent by, themself and/or through their agents, unlawfully and wrongfully making, using, importing, offering to sell, and/or selling electronic cigarette products that embody one or more of the inventions claimed in the '410 Patent.
- 25. Defendants' continuing infringement has inflicted and, unless restrained by this court, will continue to inflict great and irreparable harm upon Ruyan. Ruyan has no adequate remedy at law. Ruyan is entitled to preliminary and permanent injunctions enjoining Defendants from engaging in further acts of infringement.
- 26. As a direct and proximate result of the foregoing acts of Defendants, Ruyan has suffered, and is entitled to, monetary damages in an amount not yet determined. Ruyan is also entitled to its costs of suit and interest.
- 27. By way of the present Complaint, Defendants now have notice and knowledge of the '410 Patent and of Ruyan's rights therein.
- 28. Defendants' continuing acts of infringement, if any, are in conscious and willful disregard for Ruyan's rights, and the resulting damages to Ruyan is such as to warrant the trebling of damages to provide just compensation.

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1		PRAYER FO	<u>R RELIEF</u>				
2	Ruy	an requests entry of judgment tha	ut:				
3	A. The '410 Patent is valid and enforceable;						
4	В.	Defendants are liable for infrin	gement, contributory infringement, and				
5	inducing in	nfringement of the '410 Patent;					
6	C.	Defendants and all affiliates, su	ubsidiaries, officers, employees, agents,				
7	representat	tives, licensees, successors, assign	ns, and all those acting in concert with,				
8	or for or or	n behalf of Defendants, shall be e	njoined from directly or indirectly				
9	infringing	the '410 Patent;					
10	D.	Defendants shall pay damages	to Ruyan resulting from Defendants'				
l 1	patent infr	ingement pursuant to 35 U.S.C. §	284;				
12	E.	Defendants' continuing patent	infringement has been willful and				
13	increase damages awarded to Ruyan three times the amount assessed pursuant to						
۱4	35 U.S.C.	§ 284;					
15	F.	This action be determined to be	e an exceptional case and Ruyan be				
16	awarded it	s attorneys' fees, costs, and expens	nses pursuant to 35 U.S.C. § 285;				
١7	G.	Ruyan be entitled to prejudgme	ent interest and post-judgment interest				
18	on the dam	nages; and					
19	H.	Ruyan be awarded such other a	and further relief, in law or in equity, as				
20	the Court of	leems just, equitable or appropria	nte.				
21	DATED: I	uly 29, 2011	Door outfully submitted				
22	DATED. J	uly 29, 2011	Respectfully submitted,				
23			PERKINS COIE LLP				
24			By: Michael J. Wisels Michael J. Wise				
25							
26			Attorneys for Plaintiff RUYAN INVESTMENT (HOLDINGS) LIMITED				
27			LIMITED				
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Complaint for Patent Infringement

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Exhibit A

US007832410B2

(12) United States Patent

(10) Patent No.:

CA

US 7,832,410 B2

(45) Date of Patent:

Nov. 16, 2010

(54) ELECTRONIC ATOMIZATION CIGARETTE

(75) Inventor: Lik Hon, Hong Kong (CN)

(73) Assignee: Best Partners Worldwide Limited,

Tortola (VG)

(*) Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35

U.S.C. 154(b) by 600 days.

(21) Appl. No.: 10/587,707

(22) PCT Filed: Mar. 18, 2005

(86) PCT No.: PCT/CN2005/000337

§ 371 (c)(1),

(2), (4) Date: Mar. 9, 2007

(87) PCT Pub. No.: WO2005/099494

PCT Pub. Date: Oct. 27, 2005

(65) **Prior Publication Data**

US 2007/0267031 A1 Nov. 22, 2007

(30) Foreign Application Priority Data

Apr. 14, 2004 (CN) 2004 2 0031182 U

(51) **Int. Cl.**

A24F 47/00 (2006.01) **A61M 15/06** (2006.01)

(52) **U.S. Cl.** **131/273**; 128/200.14; 128/202.21;

131/347; 131/359; 131/360

See application file for complete search history.

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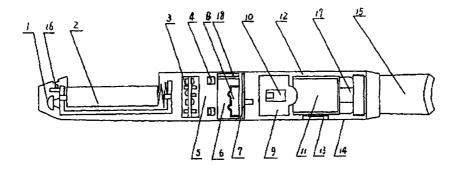
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Primary Examiner—Eric Hug
Assistant Examiner—Anthony J Calandra
(74) Attorney, Agent, or Firm—Perkins Coie LLP

(57) ABSTRACT

The invention relates to an electronic atomization cigarette which only contains nicotine without harmful tar. The electronic atomization cigarette includes a shell and a mouthpiece. The external wall of the shell has an air inlet. An electronic circuit board, a normal pressure cavity, a sensor, a vapor-liquid separator, an atomizer, a liquid-supplying bottle are sequentially provided within the shell, wherein the electronic circuit board comprises an electronic switching circuit and a high frequency generator. A stream passage of the sensor is provided on one side of the sensor, and a negative pressure cavity is provided in the sensor. The atomizer and the liquid-supplying bottle is in contact with each other. An atomization cavity is arranged in the atomizer. A retaining ring for locking the liquid-supplying bottle is provided between one side of the liquid-supplying bottle and the shell, and an aerosol passage is provided on the other side of the liquid-supplying bottle. The air inlet, normal pressure cavity, vapor-liquid separator, atomizer, aerosol passage, gas vent and mouthpiece are sequentially interconnected.

27 Claims, 5 Drawing Sheets

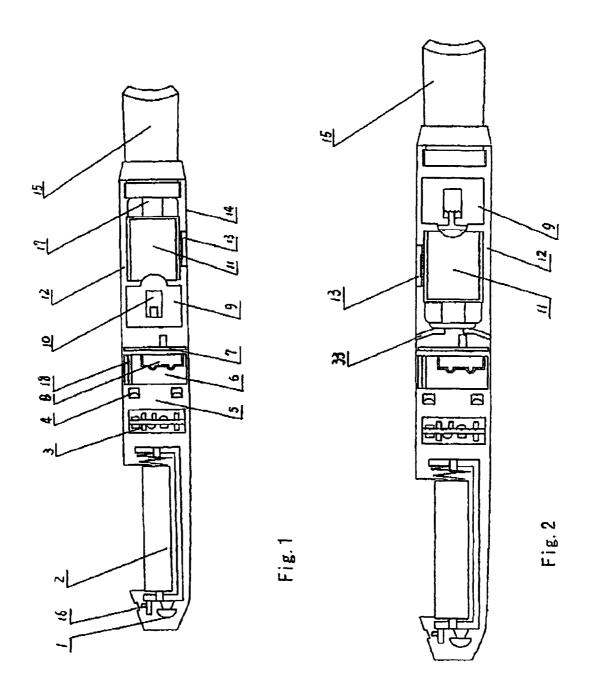


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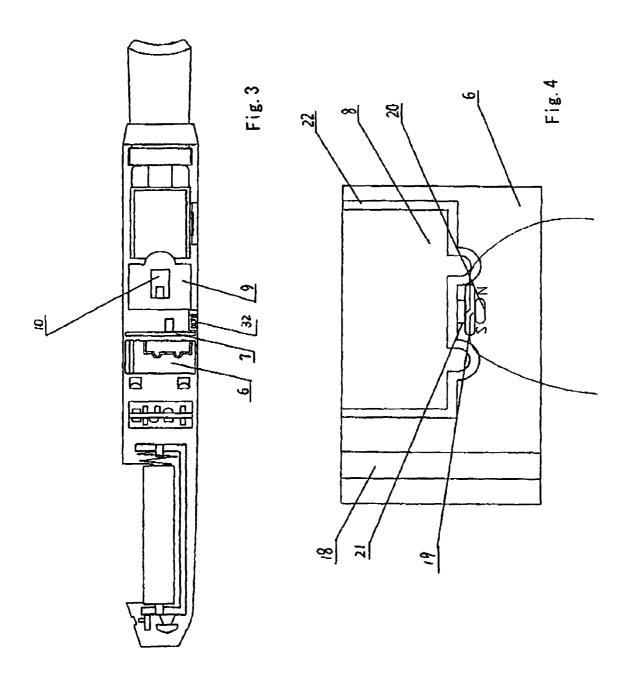
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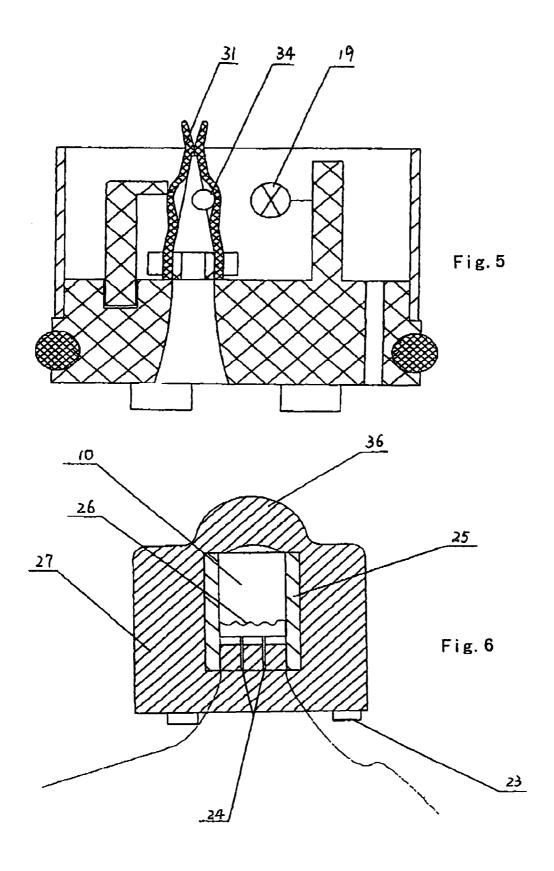
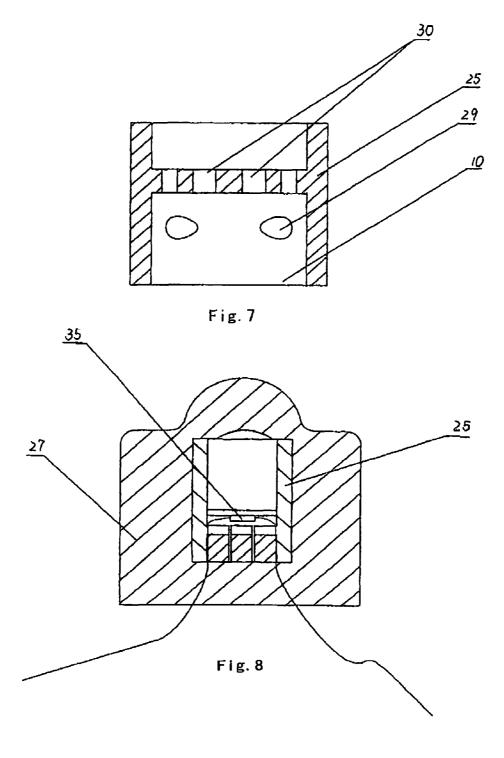


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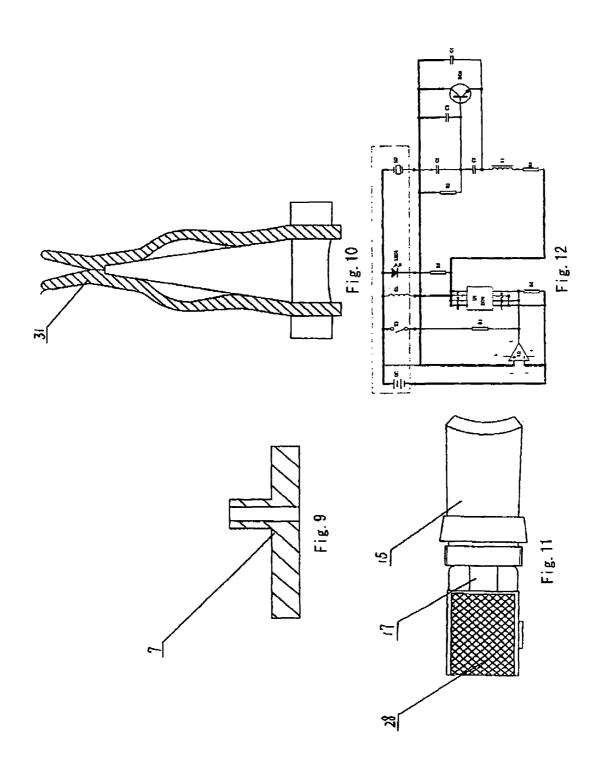
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ELECTRONIC ATOMIZATION CIGARETTE

TECHNICAL FIELD

The present invention relates to an electronic cigarette, in 5 particular to an electronic atomization cigarette that contains only nicotine without tar.

BACKGROUND ART

Despite it is commonly known that "smoking is harmful to your health", the number of smokers worldwide is up to 1 billion, and the number is increasing every year. On Mar. 1, 2003, the World Health Organization (WHO) concluded a global Framework Convention on Tobacco Control. According to the statistical data from WHO, about 4.9 million people die of is diseases caused by smoking each year. Although smoking may cause serious respiratory diseases and cancer, it remains extremely difficult for smokers to quit smoking completely.

The active ingredient in a cigarette is nicotine. During smoking, nicotine, along with a lot of tar aerosol droplets produced in the cigarette burning, enters smoker's alveolus and is rapidly absorbed. After being absorbed into the blood of a smoker, nicotine then produces its effect on the receptors of the smoker's central nervous system, which makes him/her relax and enjoy an inebriety similar to that produced by an exhilarant.

Nicotine is a kind of alkaloid with low molecular weight and its half-life in blood is quite short. The major harmful 30 subsatance in tobacco is tar, tar in tobacco is composed of thousands of ingredients, tens of which are carcinogenic substances. At present it has been proven that passive smoking can be more harmful to non-smokers.

Some cigarette substitutes flat contain only nicotine without tar have been proposed, many of them, such as "nicotine patch", "nicotine mouthwash", "spray agent packaged in high pressure gas tank with propellant", "nicotine chewing gum", "nicotine drink" etc., are made of pure nicotine. Although these cigarette substitutes are free from tar, their major disadvantage is that an effective peak concentration can not be reached in the blood of a smoker due to slow absorption of nicotine and thus it can not make a smoker get real fin, in addition, these cigarette substitutes can not satisfy habitual smoking actions of a smoker, for example, inhaling action or sucking action, and thus are not likely to be widely accepted as effective substitutes for quitting smoking or cigarette substitutes.

THE SUMMARY OF THE INVENTION

To overcome the above-referenced drawbacks, an objective of the present invention is to provide an electronic atomization cigarette that may function as a substitute for smoking cessation products or as a cigarette substitute.

The objective of the present invention is achieved by the following technical solution.

The present invention includes a shell; a mouthpiece; an air inlet provided in the external wall of the shell; an electronic circuit board, a normal pressure cavity, a sensor, a vapor-liquid separator, an atomizer, a liquid-supplying bottle arranged sequentially within the shell; a stream passage provided on one side of the sensor; a negative pressure cavity provided in the sensor; an atomization cavity arranged in the atomizer; a retaining ring for locking the liquid-supplying bottle provided between one side of the liquid-supplying bottle and the shell; and an aerosol passage provided on the

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other side of the liquid-supplying bottle, wherein the electronic circuit board comprises an electronic switching circuit and a high frequency generator; the liquid-supplying bottle is in contact with the atomizer; and the air inlet, normal pressure cavity, vapor-liquid separator, atomizer, aerosol passage, gas vent and mouthpiece are sequentially interconnected. A LED and a cell are provided at the front end within the shell, collectively constituting an integrity like a cigarette holder, cigar or a pipe.

Furthermore, a display screen is additionally provided on the inner wall of the shell; a microswitch for manually cleaning is connected to the sensor in parallel connection within the shell; a ripple film is provided between the sensor and the negative pressure cavity inside the sensor; a first magnetic steel, a second magnetic steel and a Reed switch connected between them provided within the sensor, wherein the second magnetic steel is attached to the ripple film: a silicon gel check valve is provided within the sensor, a third magnetic steel is provided in the silicon gel check valve, and a Reed switch is provided outside the valve, on the side close to the magnetic steel; a through hole is arranged on the vapor-liquid separator, a silicon gel check valve covers the through hole on the vapor-liquid separator; a overflow hole is provided on the atomization cavity wall of the atomization cavity, a heating element is provided within the atomization cavity, a long stream ejection hole is provided on one side of the heating element, the porous body is arranged outside around the atomization cavity wall, the first piezoelectric element is provided on one side of the atomizer, and a bulge is provided on the other side; the second piezoelectric element is additionally provided in the atomizer; the porous body in the atomizer can be made of foam nickel, stainless steel fiber felt, high molecule polymer foam and foam ceramic; the heating element can be made of platinum wire, nickel chromium alloy or iron chromium aluminum alloy wire with rare earth element, or may be made into a sheet form with conductive ceramics or PTC ceramics; the atomization cavity wall can be made of aluminum oxide or ceramic; the vapor-liquid separator can be made of plastic or silicon rubber; the solution storage porous body is included in the liquid-supplying bottle, and can be filled with polypropylene fiber, terylene fiber or nylon fiber, or be filled with plastics that are shaped by foaming; alternatively, it may be modeled into a column with laminated layers by polyvinyl chloride, polypropylene, polycarbonate; the Reed switch, the first magnetic steel, the second magnetic steel, the ripple film can be replaced by a semiconductor strain gauge with sealed film, which is mounted in the place of the sensor ripple film.

The present invention also discloses an electronic atomization cigarette with another structure, wherein the atomizer is postposed within the shell, the liquid-supplying bottle is arranged between the vapor-liquid separator and the atomizer, and a spring piece for pressing the liquid-supplying bottle on the atomizer is arranged at one end of the liquid-supplying bottle.

The advantages of the present invention include smoking without tar, significantly reducing the cancerogenic risk. Furthermore users still feel as if they are smoking and experiencing the same excitement, and the cigarette is no need to be lit and is no fire risk.

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With slight modification of the solution storage container, the device and connecting structures of the present invention can be filled with conventional drug for pulmonary administration apparatus.

DESCRIPTION OF THE DRAWINGS

FIG. 1 is a schematic diagram of an overall structure according to the present invention;

FIG. ${\bf 2}$ is a schematic diagram of another overall structure $_{10}$ according to the present invention;

FIG. 3 is a schematic diagram of a overall structure with a display screen according to the present invention;

FIG. 4 is a structural diagram of a sensor according to the present invention;

FIG. 5 is a structural diagram of a sensor with a silicon gel check valve according to the present invention;

FIG. 6 is a structural diagram of an atomizer according to the present invention;

FIG. 7 is a structural diagram of the ceramic member in an 20 atomizer according to the present invention;

FIG. 8 is a structural diagram of another atomizer according to the present invention;

FIG. 9 is a structural diagram of a vapor-liquid separator according to the present invention;

FIG. 10 is a structural diagram of another vapor-liquid separator according to the present invention;

FIG. 11 is a structural diagram of the connection of a liquid-supplying bottle and a mouthpiece according to the present invention;

FIG. 12 is a functional diagram of a circuit according to the present invention.

DETAILED DESCRIPTION OF THE INVENTION

The present invention is further described below with reference to the accompanying drawings.

Embodiment 1

As shown in FIG. 1, the present invention can form an integrity like a cigarette holder, a cigar or a pipe. An air inlet 4 is provided on the external wall of the shell 14. A LED 1, a cell 2, an electronic circuit board 3, a normal pressure cavity 5, a sensor 6, a vapor-liquid separator 7, an atomizer 9, a 45 liquid-supplying bottle 11 and a mouthpiece 15 are sequentially provided within the shell 14. The electronic circuit board 3 comprises an electronic switching circuit and a high frequency generator. As shown in FIG. 4, a negative pressure cavity 8 is provided in the sensor 6 and is separated from the 50 sensor 6 by a ripple film 22. A first magnetic steel 20, a second magnetic steel 21 and a Reed switch 19 arranged between them is also provided within the sensor 6, and the second magnetic steel 21 is attached to the ripple film 22. The atomizer 9 is in contact with the liquid-supplying bottle 11 via the 55 bulge 36, and the atomization cavity 10 is provided in the atomizer 9. As shown in FIGS. 6 and 7, the overflow hole 29 is provided on the atomization cavity wall 25 of the atomization cavity 10. A heating element 26, which can be made of platinum wire, nickel chromium alloy or iron chromium alu- 60 minum alloy wire with rare earth element, is provided within the cavity, and can also be made into a sheet form with conductive ceramics or PTC ceramics. An ejection hole is provided on the side opposite to the heating element 26 and the ejection hole can be determined to select either the long 65 stream ejection hole 24 or the short stream ejection hole 30, depending on the material used for the atomization cavity

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wall 25. The long stream ejection hole 24 can employ slot structure of 0.1 mm-1.3 mm or circular hole structure of Φ 0.2 mm-1.3 mm with a single and multiple holes. The short stream ejection hole 30 has the diameter of about 0.3 mm-1.3 mm. The atomization cavity wall 25 is surrounded with the porous body 27, which can be made of foam nickel, stainless steel fiber felt, high molecule polymer foam and foam ceramic. A first piezoelectric element 23 is also provided on the atomizer 9. The atomization cavity wall 25 can be made of aluminum oxide or ceramic. As shown in FIG. 9, a through hole is provided on the vapor-liquid separator 7, and can be made of plastic or silicon rubber. As shown in FIG. 11, a retaining ring 13 for locking the liquid-supplying bottle 11 is provided between one side of the liquid-supplying bottle 11 and the shell 14, an aerosol passage 12 is provided on the other side of the liquid-supplying bottle. The solution storage porous body 28 is provided in the liquid-supplying bottle, and can be filled with polypropylene fiber, terylene fiber or nylon fiber, or be filled with plastic that are shaped by foaming, such as polyamine resin foam column or polypropylene foam column; alternatively, it may be made of a column formed by molding polyvinyl chloride, polypropylene, polycarbonate into a stack of laminated layers. The air inlet 4, normal pressure cavity 5, vapor-liquid separator 7, atomizer 9, aerosol passage 12, gas vent 17, mouthpiece 15 are sequentially interconnected.

As shown in the functional diagram of the circuit in FIG. 12, K1 refers to the Reed switch 19, RL refers to the heating element 26, LED1 refers to the Light Emitting Diode 1, U2 refers to the low voltage detecting element used for the over-discharging protection of the lithium cell, M1 refers to the first piezoelectric element 23, and C1, C2, R3, L1, C3, BG, M1 collectively constitute a Colpitts oscillator. The operating principle of the circuit is as follows: when K1 is closed, U1, i.e., the field effect power transistor, is turned on, RL starts, and the Colpitts oscillator starts oscillating, M1 will provide the high frequency mechanical oscillatory wave to the atomizer 9 to achieve the result of atomization.

When a smoker smokes, the mouthpiece 15 is under nega-40 tive pressure, the air pressure difference or high speed stream between the normal pressure cavity 5 and the negative pressure cavity 8 will cause the sensor 6 to output an actuating signal, the electronic circuit board 3 connected therewith goes into operation. Now the ripple film 22 in the sensor 6 is deformed to take the second magnetic steel 21 away from the Reed switch 19, and the Reed switch 19 is then closed (i.e., K1 is closed) under the effect of the excessive magnetic line of force from the first magnetic steel 20, starting the field effect power. The high frequency oscillator may uses the Colpitts oscillator with the frequency of automatic fine-adjusting element in the circuit resonates with the first piezoelectric element 23 in the form of a ring to supply power to liquid molecule, and the LED 1 can be lit under the supply of the rechargeable battery 2. The air enters the normal pressure cavity 5 through the air inlet 4, passes through the air passage 18 of the sensor and then the through hole in the vapor-liquid separator 7, and flows into the atomization cavity 10 in the atomizer 9. The high speed stream passing through the ejection hole drives the nicotine solution in the porous body 27 to eject into the atomization cavity 10 in the form of droplet, where the nicotine solution is subjected to the ultrasonic atomization by the first piezoelectric element 23 and is further atomized by the heating element 26. After the atomization the droplets with large diameter stick to the wall under the action of eddy flow and are reabsorbed by the porous body 27 via the overflow hole 29, whereas the droplets with small diameter float in stream and forms aerosols, which are sucked out via

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the aerosol passage 12, gas vent 17 and mouthpiece 15. The solution storage porous body 28 in the liquid-supplying bottle 11 will be in contact with the bulge 36 on the atomizer 9, thereby achieving the capillary infiltration liquid-supplying.

The mouthpiece 15 is threaded. When the nicotine solution 5 in the liquid-supplying bottle 11 is used up, users can screw the mouthpiece 15 out to take the liquid-supplying bottle 11 out, refill the liquid-supplying bottle 11 with the nicotine solution, put the liquid-supplying bottle 11 into the shell 14 again, and then screw the mouthpiece 15.

The Reed switch 19, the first magnetic steel 20, the second magnetic steel 21, the ripple film 22 can be replaced by a semiconductor strain gauge with sealed film, which is mounted in the place of the sensor ripple film.

To simplify the design, the first piezoelectric element 23 on the atomizer 9 can be omitted, and the atomization of the nicotine solution will be made only by the heating element 26. The size of such an atomizer can be made smaller, and the structure of the connection of the whole electronic atomization cigarette is the same as the embodiment 1. In addition, as shown FIG. 8, the first piezoelectric element 23 and the heating element 26 in the atomizer 9 can be omitted, an additional second piezoelectric element 35 in the form of platen with a single layer or multiple laminated layers can be arranged in the atomization cavity, and the stream passing through the ejection hole vibrates the focus at the center of the second piezoelectric element 35 to achieve the effect of strong ultrasonic atomization.

As shown in FIG. 10, a silicon gel check valve 31 may cover the outside of the through hole on the vapor-liquid 30 separator 7. During smoking, a stream reaches the through hole, as the air pressure in the through hole increases, the silicon gel check valve 31 is opened and the stream passes; otherwise, the silicon gel check valve 31 is closed.

As shown in FIG. **5**, the sensor **6** may also be designed into a structure with the silicon gel check valve **31**. During smoking, the stream comes into the silicon gel check valve **31**, the air pressure increases and the air expands, the third magnetic steel **34** in the valve approaches the Reed switch **19** gradually until the Reed switch is closed and the circuit is turned on, and the air outlet of the silicon gel check valve **31** is opened with the increment of the air pressure difference. The Reed switch **19** can also be made of Hall device or magneto diode or magneto triode instead.

Embodiment 2

As shown in FIG. 2, to improve the liquid-supplying state, the atomizer 9 is postposed within the shell 14, and the liquid-supplying bottle 11 is arranged between the vapor-liquid 50 separator 7 and the atomizer 9. A spring piece 33 for pressing the liquid-supplying bottle 11 on the atomizer 9 is provided on one end of the liquid-supplying bottle 11. Other components and their functions are the same as those in the embodiment 1.

On the inner wall of the shell 14 of the electronic atomization cigarette described in the embodiment 1 and 2, a digital display screen 32 for showing the smoking times per day and the cell capacity can be also provided. The sensor 6 uses a linear signal output, which is proportional to the suction force (i.e., the stronger one sucks, the longer the time of operation is), the atomizer 9 operates in the linear mode, thereby simulating a humanized cigarette that looks like a normal cigarette.

Within the shell **14**, the microswitch **16** is connected to the 65 sensor **6** in parallel and used for manually cleaning. When users do not smoke, they press the microswitch **16** to start the

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sensor 6 connected therewith in parallel, or clean the residue or other impurity substance within the shell 14.

The nicotine solution for atomization contains 0.4-3.5% nicotine, 0.05-2% cigarette essence, 0.1-3.1% organic acid, 0.1-0.5% anti-oxidation agent, and the rest is 1,2-propylene glycol.

What is claimed is:

- 1. An electronic atomization cigarette, comprising: a shell;
- a mouthpiece;
- an air inlet provided on the external wall of the shell;
- a cell, an electronic circuit board, a normal pressure cavity, a sensor, a vapor-liquid separator, an atomizer, a liquidsupplying bottle arranged sequentially within the shell;
- a stream passage provided on one side of the sensor;
- a negative pressure cavity provided in the sensor;
- an atomization cavity arranged in the atomizer;
- an aerosol passage provided on one side of the liquidsupplying bottle;
- wherein the liquid-supplying bottle is in contact with the atomizer;
- a ripple film provided between the sensor and the negative pressure cavity within the sensor;
- a first magnetic steel, a second magnetic steel and a magneto device connected between said first and second magnetic steel provided within the sensor, wherein the second magnetic steel is attached to the ripple film; and
- the air inlet, normal pressure cavity, vapor-liquid separator, atomizer, aerosol passage, the gas vent and mouthpiece are sequentially interconnected.
- 2. The electronic atomization cigarette according to claim 1, wherein the magneto device is a Reed switch.
- 3. The electronic atomization cigarette according to claim
- 1, wherein the magneto device is a Hall device.
- 4. The electronic atomization cigarette according to claim
- 1, wherein the magneto device is a magneto diode.
- 5. The electronic atomization cigarette according to claim
- 1, wherein the magneto device is a magnetic triode.
- 6. The electronic atomization cigarette according to claim
- 1, further comprising:
 - a silicon gel check valve provided within the sensor;
 - a third magnetic steel provided in the silicon gel check valve; and
 - a Reed switch provided outside the silicon gel check valve, on a side close to the magnetic steel.
 - 7. The electronic atomization cigarette according to claim
- 1, further comprising: a heating element provided within the atomization cavity;
 - a heating element provided within the atomization cavity; a stream ejection hole provided on one side of the heating element; and
 - a porous body arranged outside around a wall of the atomization cavity.
- **8**. The electronic atomization cigarette according to claim **1**, further comprising:
 - a first piezoelectric element provided on one side of the atomizer; and
- a bulge provided on the other side of the atomizer.
- 9. The electronic atomization cigarette according to claim 7, wherein the stream ejection hole is a long stream ejection hole with 0.1 mm-1.3 mm of slot structure.
- 10. The electronic atomization cigarette according to claim 7, wherein the stream ejection hole is a long stream ejection hole with $\phi 0.2$ mm-1.3 mm of circular hole structure having a single and multiple holes.

EXHIBIT Ă

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- 11. The electronic atomization cigarette according to claim 7, wherein the stream ejection hole is a short stream ejection hole with a diameter of 0.3 mm-1.3 mm.
- 12. The electronic atomization eigarette according to claim 1, further comprising:
 - a piezoelectric element provided in the atomizer, wherein a stream passing through an ejection hole is atomized at a central vibration focus of the piezoelectric element to achieve an effect of strong ultrasonic atomization.
- 13. The electronic atomization cigarette according to claim 12, wherein the piezoelectric element comprises a platen with a single layer.
- 14. The electronic atomization cigarette according to claim 12, wherein the piezoelectric element comprises a platen with laminated layers.
- 15. The electronic atomization cigarette according to claim 1, wherein the atomizer is surrounded by a porous body which can be made of foam nickel, stainless steel fiber felt, high molecule polymer foam and foam ceramic.
- 16. The electronic atomization cigarette according to claim 7, wherein the heating element is made of platinum wire, nickel chromium alloy or iron chromium aluminum alloy wire with rare earth element.
- 17. The electronic atomization cigarette according to claim 25 7, wherein the heating element is made into a sheet comprising ceramics.
- 18. The electronic atomization cigarette according to claim 1, wherein the atomization cavity comprises a wall made of aluminum oxide.
- 19. The electronic atomization cigarette according to claim 1, wherein the atomization cavity comprises a wall made of ceramics.
 - **20**. An electronic atomization cigarette, comprising: a shell;
 - a mouthpiece;
 - an air inlet provided on the external wall of the shell;
 - a cell, an electronic circuit board, a normal pressure cavity, a sensor, a vapor-liquid separator, an atomizer, a liquid-supplying bottle arranged sequentially within the shell;
 - a stream passage provided on one side of the sensor; a gas vent;
 - a negative pressure cavity provided in the sensor; an atomization cavity arranged in the atomizer;

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- an aerosol passage provided on one side of the liquidsupplying bottle, wherein the liquid-supplying bottle is in contact with the atomizer; and
- a through hole arranged on the vapor-liquid separator wherein the air inlet, normal pressure cavity, vapor-liquid separator, atomizer, aerosol passage, the gas vent and mouthpiece are sequentially interconnected.
- 21. The electronic atomization cigarette according to claim 20, further comprising:
 - a silicon gel check valve covering the outside of the through hole on the vapor-liquid separator.
- 22. The electronic atomization cigarette according to claim 20, wherein the vapor-liquid separator is made of plastics.
- 23. The electronic atomization cigarette according to claim20, wherein the vapor-liquid separator is made of silicon rubber.
 - **24**. An electronic atomization cigarette, comprising: a shell;
 - a mouthpiece;
 - an air inlet provided on the external wall of the shell; a cell, an electronic circuit board, a normal pressure cavity, a sensor, a vapor-liquid separator, an atomizer, a liquid
 - supplying bottle arranged sequentially within the shell; a stream passage provided on one side of the sensor;
 - a negative pressure cavity provided in the sensor;
 - an atomization cavity arranged in the atomizer; and
 - an aerosol passage provided on one side of the liquidsupplying bottle, wherein the liquid-supplying bottle is in contact with the atomizer;
 - wherein the air inlet, normal pressure cavity, vapor-liquid separator, atomizer, aerosol passage, gas vent and mouthpiece are sequentially interconnected and wherein a solution storage porous body is provided in the liquid-supplying bottle.
- 25. The electronic atomization cigarette according to claim24, wherein the solution storage porous body is filled with polypropylene fiber, terylene fiber or nylon fiber.
- 26. The electronic atomization cigarette according to claim 24, wherein the solution storage porous body is filled with plastics that are shaped by foaming.
- 27. The electronic atomization cigarette according to claim 24, wherein the solution storage porous body is molded into a column with laminated layers by polyvinyl chloride, polypropylene, polycarbonate.

* * * * *

UNITED STATES DISTRICT COURT CENTRAL DISTRICT OF CALIFORNIA

NOTICE OF ASSIGNMENT TO UNITED STATES MAGISTRATE JUDGE FOR DISCOVERY

This case has been assigned to District Judge Philip S. Gutierrez and the assigned discovery Magistrate Judge is Frederick F. Mumm.

The case number on all documents filed with the Court should read as follows:

CV11- 6268 PSG (FFMx)

Pursuant to General Order 05-07 of the United States District Court for the Central District of California, the Magistrate Judge has been designated to hear discovery related motions

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Case 2:11-cv-06268-GAF-FFM Do	cument 1	Filed 07/29/11	Page 23 of 26	Page ID #:69
Name & Address:				•
Michael J. Wise, Bar No. 143501				
PERKINS COIE LLP				
1888 Century Park East, Suite 1700				
Los Angeles, CA 90067-1721				
310.788.9900				
		DISTRICT COURT OF CALIFOR		
RUYAN INVESTMENT (HOLDINGS) LI	MITED,	CASE NUMBER		
a British Virgin Islands company,				
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PUFFER, a New Jersey Corporation; GIL CYPHERT, an in	ndividual dba			
NU 1S; JEFFREY ORTH, an individual dba JANTY USA; LLC, a Texas Limited Liability Company; CN CREATIVE			CTIMANONIC	
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TO: DEFENDANT(S):				

A lawsuit has been filed against you. Within 21 days after service of the servic		s on you (not cour	nting the day you r	eceived it) vou
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Perkins Coie LLP, 1888 Century Park East,				If you fail to do so,
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Name & Address:	
Michael J. Wise, Bar No. 143501	
PERKINS COIE LLP	
1888 Century Park East, Suite 1700	
Los Angeles, CA 90067-1721	
310.788.9900	•
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•	DISTRICT COURT T OF CALIFORNIA
RUYAN INVESTMENT (HOLDINGS) LIMITED,	CASE NUMBER
a British Virgin Islands company,	CASE NUMBER
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PLAINTIFF(S)	. A O W 1 1 / 2 / O D C / 150
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LLC, a Texas Limited Liability Company; CN CREATIVE LIMITED, a	SUMMONS
United Kingdom Company; INTELLICIG USA LLC, a Georgia Limited Liability Company; and DOES 1-10, inclusive,	
DEFENDANTS	•
TO: DEFENDANT(S):	
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Within 21 days after service of this summor must serve on the plaintiff an answer to the attached ☑ counterclaim ☐ cross-claim or a motion under Rule 1 or motion must be served on the plaintiff's attorney, Mi Perkins Coie LLP, 1888 Century Park East, Suite 1700, judgment by default will be entered against you for the ryour answer or motion with the court.	2 of the Federal Rules of Civil Procedure. The answer chael J. Wise, whose address is Los Angeles, CA 90067-1721 If you fail to do so,
	Clerk, U.S. District Court
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Dated: <u>July 29, 2011</u>	By: SUSANA P. BUSTAMANTE
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[Use 60 days if the defendant is the United States or a United States 60 days by Rule 12(a)(3)].	s agency, or is an officer or employee of the United States. Allowed
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Case 2:11-cv-06268-GAF-FFM Document 1 Filed 07/29/11 Page 24 of 26 Page ID #:70

Case 2:11-cv-06268-GAF-EFM Document 1 Filed 07/29/11 Page 25 of 26

UNITED STATES DISTRICT COURT, CENTRAL DISTRICT OF CALIFORNIA CIVIL COVER SHEET

I (a) PLAINTIFFS (Check box if you are representing yourself □) RUYAN INVESTMENT (HOLDINGS) LIMITED, a British Virgin Islands company,					1	DEFENDANTS VAPOR CORP., a Nevada Corporation; LOAD AND FOLD dba MAGIC PUFFER, a New Jersey Corporation; GIL CYPHERT, an individual dba NU 1S; JEFFREY ORTH, an individual dba JANTY USA; JANTY USA, LLC, a Texas Limited Liability Company; CN CREATIVE LIMITED, a United Kingdom company; INTELLICIG USA LLC, a Georgia Limited Liability Company; and DOES 1-10, inclusive,							
	Attorneys (Firm Name, Acyourself, provide same.)	ldress a	nd Telephone Number. If y	you are	representing	Attorneys	(If Known)						
	Michael J. Wise, Perkins (1888 Century Park East, S 310.788.9900		P, 00, Los Angeles, CA 9000	67-1721									
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FOR OFFICE USE ONLY: Case Number: ACV11-6268

AFTER COMPLETING THE FRONT SIDE OF FORM CV-71, COMPLETE THE INFORMATION REQUESTED BELOW.

CV-71 (05/08)

Case 2:11-cv-06268-GAF-FFM Document 1 Filed 07/29/11 Page 26 of 26 Page ID #:72 UNITED STATES DISTRICT COURT, CENTRAL DISTRICT OF CALIFORNIA CIVIL COVER SHEET

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	any cases been pre	eviously filed in this court that	are related to the present case? No Yes				
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X. SIGNATURE OF ATTORNEY (OR PRO PER):	Michael J. Wis	Date July 29, 2011				
or other papers as required by law	 This form, approv 	ed by the Judicial Conference	nation contained herein neither replace nor supplement the filing and service of pleadings of the United States in September 1974, is required pursuant to Local Rule 3-1 is not filed ng the civil docket sheet. (For more detailed instructions, see separate instructions sheet.)				
Key to Statistical codes relating to So	cial Security Cases:						
Nature of Suit Code	Abbreviation	Substantive Statement of Cause of Action					
861	HIA	All claims for health insurance benefits (Medicare) under Title 18, Part A, of the Social Security Act, as amended. Also, include claims by hospitals, skilled nursing facilities, etc., for certification as providers of services under the program. (42 U.S.C. 1935FF(b))					
862	BL	All claims for "Black Lung" benefits under Title 4, Part B, of the Federal Coal Mine Health and Safety Act of 1969. (30 U.S.C. 923)					
863	DIWC	All claims filed by insured workers for disability insurance benefits under Title 2 of the Social Security Act, as amended; plus all claims filed for child's insurance benefits based on disability. (42 U.S.C. 405(g))					
863	DIWW	All claims filed for widows or widowers insurance benefits based on disability under Title 2 of the Social Security Act, as amended. (42 U.S.C. 405(g))					
864	SSID	All claims for supplemental Act, as amended.	security income payments based upon disability filed under Title 16 of the Social Security				
865	RSI	All claims for retirement (old age) and survivors benefits under Title 2 of the Social Security Act, as amended. (42 U.S.C. (g))					

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